IN THE CLAIMS

- 1. (Currently Amended) A method for decoding compressed video comprising:
 - reading a stream of compressed video into a memory, said video having multiple pictures, each picture having one or more independent slices;
 - assigning, via a first processor of a group of <u>symmetric multiple</u> processors sharing said memory, at least one independent slice per processor-to be decoded by the <u>processors in parallel</u>, including assigning a varying number of slices to individual processors; and
 - each of the symmetric multiple processors, including the first processor, decoding the

 assigned slices in parallel without reading from a program memory other

 than the shared memory.
- 3. (Canceled)
- 4. (Previously Presented) The method of claim 1, wherein assigning the independent slices includes assigning a comparable work load to the processors.
- 5. (Previously Presented) The method of claim 4, wherein assigning the independent slices includes placing in memory as a local variable, for each processor, the slices to be decoded by a respective processor.
- 6. (Original) The method of claim 5, wherein each slice includes at least one macroblock.
- 7. (Original) The method of claim 6, wherein said video is encoded in MPEG.

App. No.: 09/470,299 - 2 - Attorney Docket No.: 042390.P7940

- 8. (Original) The method of claim 7, wherein the method of decoding is performed in real-time.
- 9. (Currently Amended) A computer-readable medium having stored thereon a set of instructions, said set of instruction for decoding compressed video, which when executed by a processor, cause said processor to perform a method comprising;

reading a stream of compressed video into memory, said video having multiple pictures, each picture having one or more independent slices;

assigning, via a first processor of a group of <u>symmetric multiple</u> processors sharing said memory, at least one independent slice per processor to be decoded by the <u>processors in parallel</u>, including assigning a varying number of slices to individual processors; and

each of the symmetric multiple processors, including the first processor, decoding the

assigned slices in parallel without reading from a program memory other

than the shared memory.

11. (Canceled)

- 12. (Previously Presented) The computer-readable medium of claim 10, wherein assigning the independent slices includes assigning a comparable work load to the processors.
- 13. (Previously Presented) The computer-readable medium of claim 12, wherein assigning the independent slices includes placing in memory as a local variable, for each processor, the slices to be decoded by a respective processor.

- 14. (Original) The computer-readable medium of claim 13, wherein each slice includes at least one macroblock.
- 15. (Original) The computer-readable medium of claim 14, wherein said video is encoded in MPEG standard.
- 16. (Original) The computer-readable medium of claim 15, wherein the method of decoding is performed in real-time.
- 17. (Currently Amended) A computer system comprising:
 - a plurality of symmetric multiple processors;
 - a memory coupled to said plurality of symmetric multiple processors;
 - a first unit of logic in a first processor of said group of symmetric multiple processors

 sharing said memory, said first unit of logic to read a stream of compressed video into said memory, said video having multiple pictures, with each picture having one or more independent slices; and
 - said first unit of logic further assigns, via a first processor of said group of

 processors sharing said memory, at least one independent slice per

 processor-to be decoded by the processors in parallel, said first unit to assign a

 varying number of slices to individual processors; and
 - each of the symmetrical multiple processors, including the first processor, decodes the

 assigned slices in parallel without reading from a program memory other

 than the shared memory.

App. No.: 09/470,299 - 4 - Attorney Docket No.: 042390.P7940

- 20. (Previously Presented) The computer system of claim 20, wherein said first unit of logic assigns a comparable work load to the processors.
- 21. (Original) The computer system of claim 20, wherein said first unit of logic places in memory as a local variable, for each processor, the slices to be decoded by a respective processor.
- 22. (Original) The computer system of claim 21, wherein each slice includes at least one macroblock.
- 23. (Original) The computer system of claim 22, wherein said video is encoded in MPEG standard.
- 24. (Original) The computer system of claim 23, wherein system computer system decodes said video in real-time.